

Title (en)
Process and apparatus for the propagation of yeast.

Title (de)
Verfahren und Anlage zur Vermehrung von Hefe.

Title (fr)
Procédé et appareil pour la propagation de levure.

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EP 0647708 A3 19970730 (DE)

Application
EP 94114133 A 19940908

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DE 4331409 A 19930915

Abstract (en)
[origin: DE4331409C1] In the process described for the multiplication of yeast, in particular brewer's yeast, in which, in a tank-like assimilator (1, 1', 1''), which is connected to a pipe (7, 7', 7''), a basal amount of yeast is mixed with a nutrient solution, in particular beer wort, serving as yeast food, to give a suspension which, in the region of the pipe, is enriched (in 11) with dissolved oxygen and to which new wort is fed batchwise and which multiplies in this environment at a controlled temperature up to a preset population density, whereupon part of or all of the suspension is taken off from the assimilator and fed to a fermentation tank, a variable dependent on the extract content of the suspension is measured (in 43, 45) and the oxygen content (in 41) of the suspension is measured continuously and the variable is kept within limits specified for the particular multiplication (growth) programme, so that the yeast multiplication is specifically kept in the logarithmic phase. A plant which can be used for this purpose comprises at least one tank-like assimilator (1, 1', 1'') which has a heating/cooling device (23, 25) and an apparatus (37) for measuring the amount of contents and an inlet and an outlet connection (3, 3''; 5, 5'') with a respective connection pipe (7, 7', 7''), of which the inlet connection pipe (via 15) is connected to a wort feed apparatus and one of the pipes, along the course of its length, passes through an oxygen feed apparatus (11), and is characterised in that in the assimilator (1, 1'... Original abstract incomplete. <IMAGE>

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Citation (search report)
• [X] EP 0175607 A1 19860326 - AIR LIQUIDE [FR]
• [A] US 4652451 A 19870324 - LEEDHAM PETER A [GB], et al

Cited by
EP1167514A1; AU779542B2; WO9808930A1; WO2021160458A1

Designated contracting state (EPC)
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